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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,249	06/25/2003	Gregory A. Merkel	SP03-071	4924
22928	7590 10/05/2005		EXAMINER	
CORNING INCORPORATED SP-TI-3-1			GREENE, J	IASON M
CORNING, 1	NY 14831		ART UNIT	PAPER NUMBER
			1724	·

DATE MAILED: 10/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)			
•	10/607,249	MERKEL ET AL.			
Office Action Summary	Examiner	Art Unit			
·	Jason M. Greene	1724			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	PATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>06 J</u> This action is FINAL . 2b)⊠ This Since this application is in condition for alloware closed in accordance with the practice under the practice.	s action is non-final. Ince except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 74-78 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 74-78 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examine 10)☒ The drawing(s) filed on <u>06 July 2005</u> is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Examine 11.	accepted or b) objected to be drawing(s) be held in abeyance. See stion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicationity documents have been received in (PCT Rule 17.2(a)).	on No ed in this National Stage			
. Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 7/6/05.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

DETAILED ACTION

Response to Amendment.

Drawings

1. The drawings were received on 6 July 2005. These drawings are acceptable.

Response to Arguments

- 2. Applicant's arguments, see page 4, lines 11-17, filed 6 July 2005, with respect to the objections to claims 15-19 (reintroduced as claims 74-78) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn.

 However, upon further consideration, a new ground(s) of rejection is made in view of Merkel '198.
- 3. The indicated allowability of claims 15-19 (reintroduced as claims 74-78) is withdrawn in view of the newly discovered reference(s) to Merkel (U.S. Patent 6,864,198 B2).

Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

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4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 74-78 are rejected under 35 U.S.C. 102(e) as being anticipated by Merkel '198 (U.S. Patent 6,864,198 B2).

The applied reference has a common assignee and a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

With regard to claims 74 and 75, Merkel '198 discloses a diesel particulate filter comprising a plugged wall-flow honeycomb ceramic body composed of cordierite and having a plurality of parallel end-plugged cell channels traversing the body from a frontal inlet end to an outlet end thereof, wherein the filter exhibits a CTE (25-800 °C) of

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 $(8.1 \times 10^{-7})^{0}$ C, a bulk filter density of 0.489 g/cm³, a median pore diameter d₅₀ of 9.69 µm, a porosity of 62.51% and pore size distribution such that P_m (P_f) = 2.85, wherein d₁₀ and d₉₀ are pore diameters at 10% and 90% of the pore size distribution on a volumetric basis, and d₁₀<d₅₀<d₉₀ in Example 2 of Table 3 in columns 11 and 12 and col. 1, line 65 to col. 3, line 55.

With regard to the bulk filter density, Merkel '198 teaches the honeycomb filter of Example 2 having a wall thickness of 0.0155 (0.0292 cm) and a cell number of 182 cells per inch² (28.2 cells per cm²) in Table 3. From the cell number, the number of cell walls per square cm can be calculated as 2 * (28.2 cells per cm²)¹/² = 10.62. As was noted in the previous Office action, cordierite has a specific gravity of 2.52 g/cm³. From the specific gravity of cordierite and the porosity, the density can be calculated as 10.62 cell walls/cm² * 0.0292 cm * 1 cm length * 2.52 g/cm³ * 62.51% porosity = 0.489 g/cm³, which is less than 0.60 g/cm³.

With regard to claims 76-78, Merkel '198 discloses a diesel particulate filter comprising a plugged wall-flow honeycomb ceramic body composed of cordierite and having a plurality of parallel end-plugged cell channels traversing the body from a frontal inlet end to an outlet end thereof, wherein the filter exhibits a CTE (25-800 $^{\circ}$ C) of (8.1X10⁻⁷/ $^{\circ}$ C, a bulk filter density of 0.489 g/cm³, a median pore diameter d₅₀ of 9.69 µm, a porosity of 62.51% and pore size distribution such that P_m (P_f) = 2.85, wherein d₁₀ and d₉₀ are pore diameters at 10% and 90% of the pore size distribution on a volumetric

basis, and d_{10} < d_{50} < d_{90} and wherein d_{90} is 16.35 µm in Example 2 of Table 3 in columns 11 and 12 and col. 1, line 65 to col. 3, line 55.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason M. Greene whose telephone number is (571) 272-1157. The examiner can normally be reached on Monday - Friday (9:00 AM to 5:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jason M. Greene

Examiner

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jmg

October 2, 2005

DUANE SMITH

10-3-05